CAUTION

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USE SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

THE LIGHTING FLASH WITH AN ARROWHEAD SYMBOL WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED " DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

CAUTION

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

NOTICE :
THE SPECIFICATIONS CAN BE CHANGED OR IMPROVED W/O NOTICE.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

ATTENTION

INSTALLATION SHOULD BE PERFORMED BY QUALIFIED SERVICE PERSONNEL ONLY

NOTICE

POWER DISCONNECT. UNIT WITH OR WITHOUT ON-OFF SWITCHES HAVE POWER SUPPLIED TO THE UNIT WHENEVER THE POWER CORD IS INSERTED INTO THE POWER SOURCE; HOWEVER, THE UNIT IS OPERATIONAL ONLY WHEN THE ON-OFF SWITCH IS IN THE ON POSITION. THE POWER CORD IS THE MAIN POWER DISCONNECT FOR ALL UNITES.

About This Manual

Before installing stand-alone DVR, be sure to thoroughly review and follow the instructions in this User's Manual. Pay particular attention to the parts that are marked NOTICE.
Also, when connecting with external application, first turn the power OFF and follow manual instruction for appropriate installation.

Before Reading This Manual

1. This document is intended for both the administrator and users of stand-alone DVR model.
2. This manual contains information for configuring, managing and using stand-alone DVR model.
3. Be sure to read through this manual before using this stand-alone DVR model.
4. To prevent fie or electrical shock, do not expose the product to heat or moisture.
5. Check electricity at the place you want to install the DVR unit if it is stable and meets our electricity requirements. Unstable electricity will cause malfunction of the unit or give critical damage to the unit.
6. Several chips on the main board of the DVR unit and hard disk drive inside the unit generate heat, and it must be properly discharged. Do not put any objects just beside exhaust port (fan) on the side of the unit and do not close up an opening (fresh air in take) on the side of the unit.
7. Put the DVR unit at well-ventilated place and do not put heat-generating objects on the unit. When it is installed inside 19 inch mounting rack together with other devices, please check built-in ventilation fan of the rack is properly running.
8. For questions and technical assistance of this product, contact your local dealer.

WARNING

Please do not put the unit into the rain or the damp environment to avoid system fire.

NOTICE

Please do not open the unit. There's no any parts has to be fixed by end user. For any problems on the unit, please contact your dealer.

This manual is published on the time of the product has been made. The manufacture has the right to change or upgrade the product without any announcement. All the spec of product is basis on the product sold by time.

NOTICE

Open Package:

Please be care to open the package to avoid dropping the unit. This might hurt any parts of your body or the system will be broken.

Checking and Confirm:

1. If there's any damage happened on the shipping, please pack the unit in the original box and return back.

2. Please check the goods shipped inside the package (as below). If there's any lose, please contact your dealer.
   Standard Goods with one package:
   a. DVR main system *1
   b. 100~240 Power Supply *1
   c. DC 12V 5A Power Cord *1
   d. User's Manual *1
   f. Hard Disk Screws *4

3. Please keep the packing box as it is made to protect the unit in case if the unit needs to be returned for any reason.

Working Environment:

Please do not set the unit in any case with no air circulation as the unit might be dead on heat.

Remove Hard Disk Box:

Please turn off the system first while take out the Hard Disk Box.

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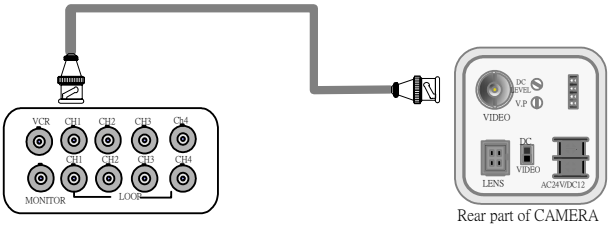
1. System Installation

1-1 Camera and Monitor Installation

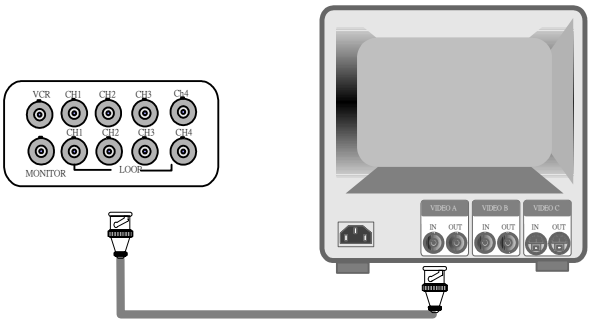
1-1-1 Camera Installation



Rear part of CAMERA

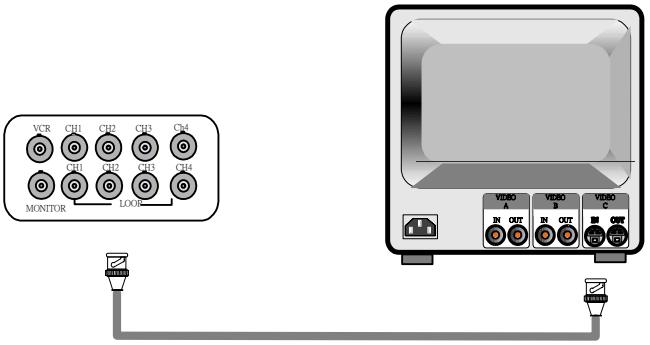
Connect the camera output to DVR video input (on back panel) (Ch1~ Ch4).

1-1-2 Monitor Installation

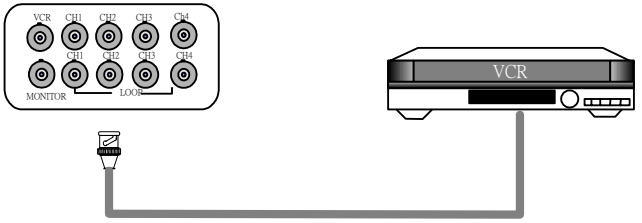


Connect the DVR video output (MONITOR) to monitor input (VIDEO IN).

1-1-3 Loop Out

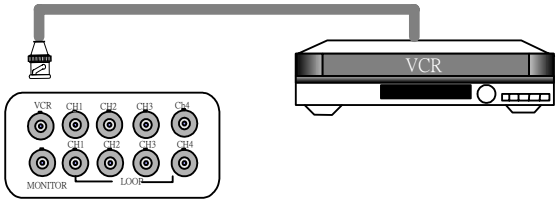


User can monitor each single channel by connecting the LOOP output to monitor input (VIDEO IN).



User can record each single channel by connecting the LOOP output to DVR, VCR or any other recording device.

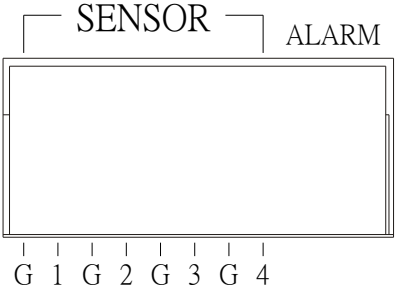
1-1-4 VCR Installation



Connect the DVR video output (VCR) to VCR video input (VIDEO IN).

1-2 Alarm and Sensor Installation

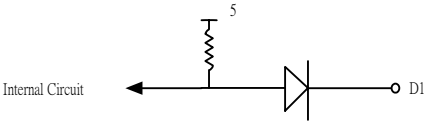
1-2-1 Alarm Input/Output



Alarm: 1 ~ 4 + G
Relay: NC, NO

1-2-2 Sensor Installation

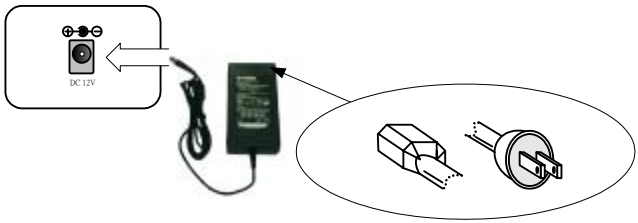
Sensor In: Alarm trig ger when D1 ~ D4 short- circ uit with GND.



Caution:
If the power input of the sensor is over 5 Volts, it may cause several damages on the DVR.
Please confirm the spec of sensor output before using.

1-3 Power Installation

1-3-1 Power Installation



Connect the switch power supply to DVR power input.
switch power specification:
Input AC 110 ~ 240V / Output DC12V 4.16A

1-3-2 Boot DVR

☐ @Please confirm all the DVR connection and install HDD before booting the DVR.

@Turn on the DVR by switch on back panel.

☐ @Please clear HDD after booting. (Refer to 4-5 HDD Setup)

☐ @Please refer to relative chapter to operate and setup the DVR.

2. Display Introduction

2-1 Record Function

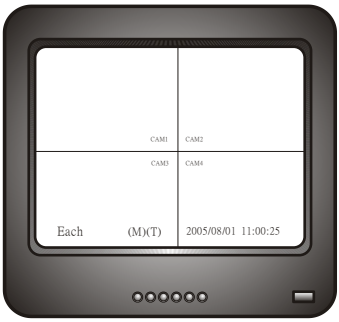
1.DVR will enter the REC mode automatically after booting for a minute, however, user can press RECORD button to record.

2.If the power failure, the DVR will back to recording mode automatically after power recovery.

Recording will be interrupted under the following situations:

1. While playback and Setting Up.
2. Without camera signal connection
3. On Camera Setting, if camera has been set as "_". (Refer to 4-2-2 Record Select).
4. Press STOP to stop recording. If there is no pressing on any function keys, the DVR will record automatically after few secons stopping.
5. No HDD in the system.
6. On HDD Setting, if the HDD has been set as "no", the DVR will stop recording while HDD is in full.

2-2 Screen Display



CH1 = First camera
CH2 = Second camera
CH3 = Third camera
CH4 = Fourth camera
EACH = Record Mode
REC = System Status
(M) = Master HDD
(T) = Live Recording
Date / Time

Auto Recording = After turning on or setting up completely for few seconds, the DVR will record automatically (Exclude Motion Detection Recording).

● =Shows the DVR is recording.

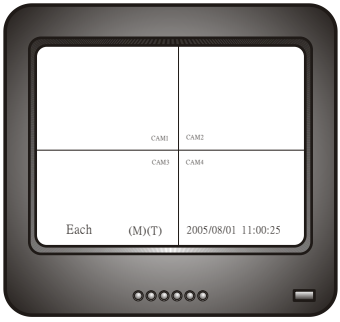
Single picture

2-2-1 Full Screen

Select 1 ~ 4 to get into 1 ~ 4 single picture.

2-2-2 Split Screen

Press MODE button to get into 4 Split Screen.



Split Screen

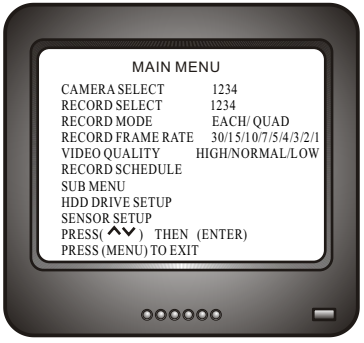
3. System Setup

3-1 Login In

Record Mode

Default password : 111111

3-2 Main Menu



Input the password when
Log in Menu and Stop recorder.

3-2-1 CAMERA SELECT

Press 1 ~ 4 button to display or hide the selecting camera.

3-2-2 RECORD SELECT

Press 1 ~ 4 button to turn on or turn off the recording of selecting camera.

3-2-3 RECORD MODE

Press ENTER button to change Record mode to EACH or QUAD.

3-2-4 RECORD FRAME RATE

Press ENTER button to select the different frame rate of recording.

3-2-5 RECORD QUALITY

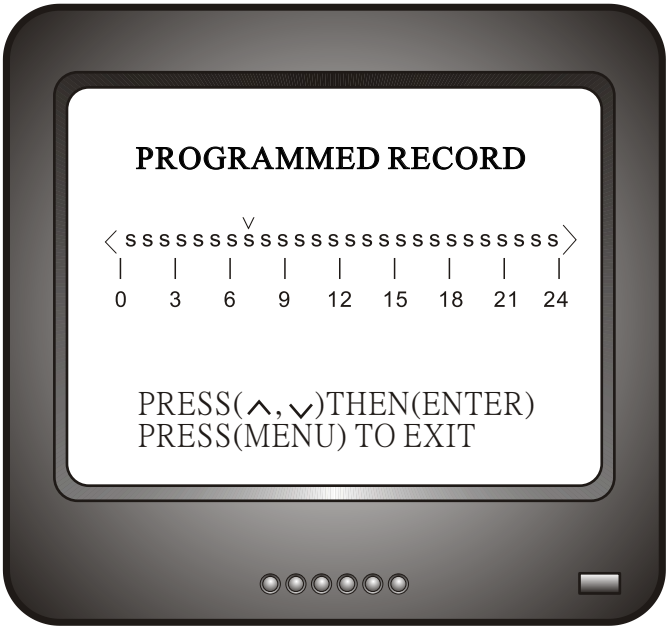
Press ENTER button to select the different picture quality of recording.

3-3 RECORD SCHEDULE

Press ENTER button to change:

T = Time Recording
S = Motion or Alarm Recording
- = Turn off Recording

Schedule Recording is based on 24 hours.



3-4 Password / Time set up

3-4-1 PASSWORD CHANGE

Change Password:

1. Enter to Password Setup
2. Key in Old Password
3. Key in New Password
4. Key in New Password again to confirm
5. ENTER

3-4-2 TIME SET

yy/mm/dd h/m/s

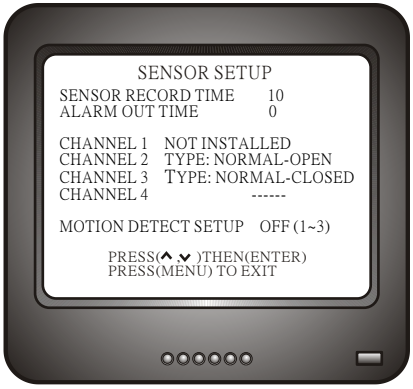
Change Time/Date:

1. Use Up/Down button to move cursor
2. Press Enter button to change number

3-5 HDD SETUP

OVERWRITE ENABLE:
"YES" = non-stop recording. The data would be covered by rewriting the HDD.
"NO" = the recording would be stopped while HDD is in full.
MASTER/SLAVE HDD Capacity = shows the total capacity of HDD
MASTER/SLAVE HDD in Used = shows the data capacity in HDD
MASTER/SLAVE HDD FORMATE = clears all the data in the HDD (needs password)

3-6 Alarm set up



SENSOR RECORD: The time of Recording in seconds while alarm triggered (5/10/15/20/25/30 selected)
ALARM OUT TIME: The time of Relay action while alarm triggered (0/5/15/20/25/30/con(continuous) selected)

SENSOR SETTING MODE:
1.----- = not use
2.N-O = Normal Open
3.N-C = Normal Close

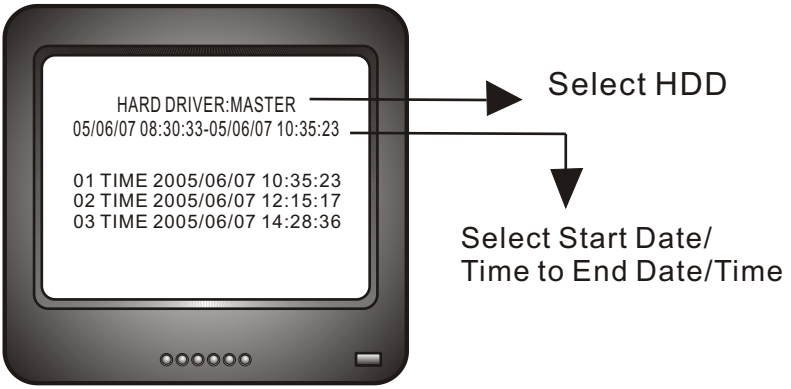
Motion Detect Setup:
1 ~ 3 = adjusted
OFF = not use

Note: Motion Detect Record Setup as below
1.Set the Record Time to "S" (Refer to 4-3 Record Setup)
2.Set Alarm On in "N-O"
3.Set Motion Detect in 1 or 2 or 3.

4. Playback Introduction

☐ TO PLAYBACK, PLEASE "STOP" RECORDING.

While the DVR is **not on recording**, press "PLAY" for few second, it shows the picture as below:
(Picture 1.)



4-1 Time / Date Playback:

A. After Time/Date shows on the top of screen, press "Forward" button. The cursor will move to HARD DISK position.
B. Press "ENTER" button to select MASTER HDD or SLAVE HDD.
C. Press "Up, Down" button and "ENTER" button to adjust the time and date.
D. After setting Time / Date, press "PLAY" to play back the video.

※ The Time / Date Playback might not play back the data while using Motion Detect Recording.

4-2 Event Playback

A. Press “PLAY” for few seconds, it shows the Event List on the scree
B. Press “Up, Down” button to select the event.
C. Press “PLAY” to play back the video.

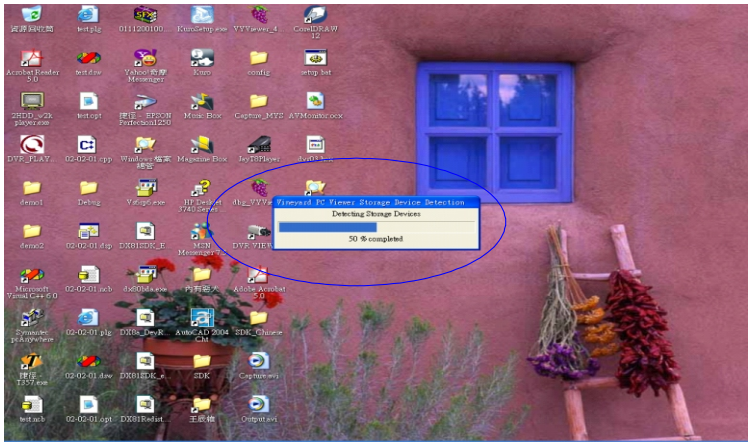
※ Event List is divided in Time and Alarm triggered.

Function Button for Playback:
□“Forward” = to select multiple speed to play
(FF1, FF2, FF3, 3 level adjustable).
□“Backward” = to select backward speed.
□“PAUSE” = to freeze the picture.
□“STOP” = to stop the play.
□“MENU” = to exit and back to monitoring
(please “STOP” the video before exit).

5. Back up

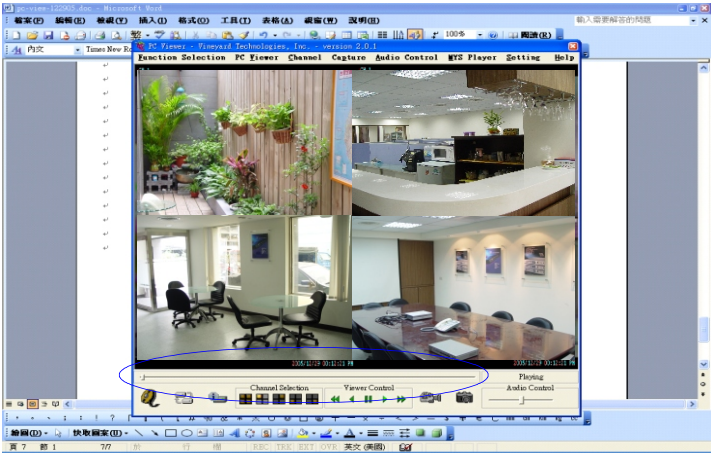
5-1Install PC Viewer

1. Please install Digitview's PC VIEWER software (Disc with the pack) into your PC. (This software currently supports Windows XP).
2. The software will be displayed on the screen after then.



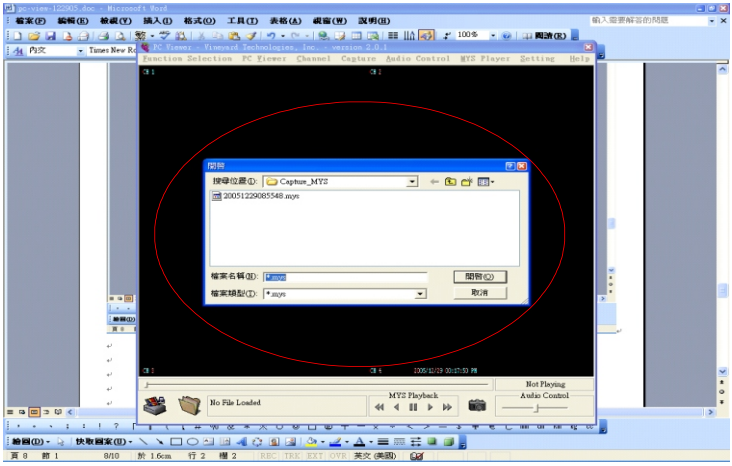
3. Enter into the software till the pictures shown.

4. There are 2 modes of viewing the pictures, QUAD/EACH.
(User can only view EACH mode when recording setting is on EACH).



5. Press the left button of mouse to move the control bar and select data playing.

6. Save the data : Click on the picture above.
(The screen shown as below)



7. Select data saving path.
8. Key in file name.
9. Click on save.

Data saved could only be read on PC VIEWER with *.MYS file.
If there is hard time to read this file, please download the DX81NTcht (DXSetup.exe) from its website.

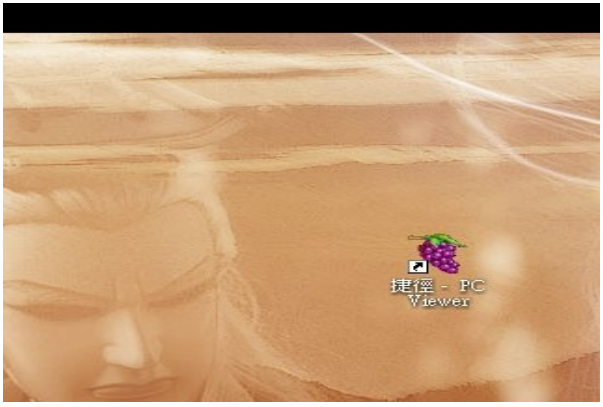
5-2 USB Link

Confirm the DVR is not recording.

Connect the DVR with
a computer using the USB cable.

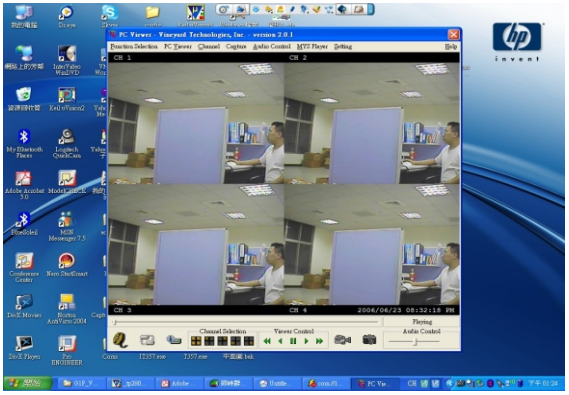
Once the DVR connect with
a computer, Linking information
will appear on the Monitor.

Make sure the USB connect with DVR and a computer.

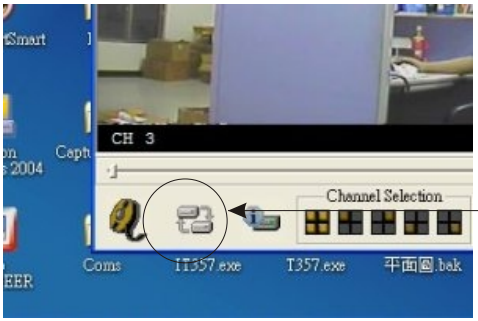


Insert The PC viewer disk to a computer.
Click the install icon.

The status will appear
while the soft ware install.



Once the install complete,
the program run automatically.



Select HDD

Storage Device Selection
2 VV Devices are detected - Select Device
Device 0 81964 MByte - Now Playing
Device 1 163928 MByte
OK
Cancel

Play and back up.

6. Appendix

6-1 Recording Time Table

@ This Time Table is on 80GB HDD and for user's reference only.

Recording Results in NTSC Format			30 fps	15 fps	7 fps	1 fps
Video Signal	Display Format	Video Quality				
NTSC	QUAD MODE	High	36 Hours	72 Hours	144 Hours	1,080 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,440 Hours
		Basic	58 Hours	116 Hours	232 Hours	1,740 Hours
	EACH MODE (Full Screen)	High	64 Hours	128 Hours	256 Hours	1,920 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,700 Hours
		Basic	112 Hours	224 Hours	448 Hours	3,360 Hours
Recording Results in PAL Format			25 fps	12 fps	6 fps	1 fps
Video Signal	Display Format	Video Quality				
PAL	QUAD MODE	High	38 Hours	76 Hours	152 Hours	950 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,200 Hours
		Basic	60 Hours	120 Hours	240 Hours	1,500 Hours
	EACH MODE (Full Screen)	High	62 Hours	124 Hours	248 Hours	1,550 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,250 Hours
		Basic	118 Hours	236 Hours	472 Hours	2,950 Hours